FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Alcoa World Alumina LLC

AUTHORIZING THE OPERATION OF
Alcoa Point Comfort Operations
Alumina Refining

LOCATED AT
Calhoun County, Texas
Latitude 28° 38′ 45″ Longitude 96° 33′ 41″
Regulated Entity Number: RN100242577

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1344 Issuance Date: _____

_____
For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive

ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity

requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to

condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's

eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:

A. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

(i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

(ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

(iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

B. Title 40 CFR § 60.8 (relating to Performance Tests)

C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

D. Title 40 CFR § 60.12 (relating to Circumvention)

E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

F. Title 40 CFR § 60.14 (relating to Modification)

G. Title 40 CFR § 60.15 (relating to Reconstruction)

H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

7. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):

A. Title 40 CFR § 63.11111(e), for records of monthly throughput

B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput

C. Title 40 CFR § 63.11111(j), for dispensing from fixed tank into portable tank for on-site delivery

D. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput

E. Title 40 CFR § 63.11115(a), for operation of the source

F. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices

G. Title 40 CFR § 63.11116(b), for records availability

H. Title 40 CFR § 63.11116(d), for portable gasoline containers

Additional Monitoring Requirements

8. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:

A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).

B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a

deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.

E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the permits by rule identified in the PBR Supplemental Tables in the application), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air

contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

13. The permit holder shall comply with the following requirements for Air Quality Standard Permits:

    A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit

    B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit

    C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

14. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

15. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

        (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

        (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

        (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

16. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

17. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

18. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
G9/CIWPX01	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
G9/CIWPX01	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
G9/CIWPX02	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
G9/CIWPX02	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP100A72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R110/40X01, R110/40X02, R110/40X03, R110/CVA01, R110/CVD01, R25/BM0101, R25/BM0102, R25/BM0201, R25/BM0202, R25/BM0301, R25/BM0302, R301/WAS01, R35V/FCX01, R35V/FEA01, R35V/FS201, R35V/FWB01, R40/HI0101, R40/HI0201, R40/HI0301, R40/HI0401, R40/HI0501, R40/HI0601, R42/01EV01, R42/02EV01, R42/03EV01, R42/04EV01, R42/06EV01,	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		R42/H17A01, R42/HECP01, R42/HECV01, R56/HF1201			
GRP100A72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R110/40X01, R110/40X02, R110/40X03, R110/CVA01, R110/CVD01, R25/BM0101, R25/BM0102, R25/BM0201, R25/BM0202, R25/BM0301, R25/BM0302, R301/WAS01, R35V/FCX01, R35V/FEA01, R35V/FS201, R35V/FWB01, R40/HI0101, R40/HI0201, R40/HI0301, R40/HI0401, R40/HI0501, R40/HI0601, R42/01EV01, R42/02EV01, R42/03EV01, R42/04EV01, R42/06EV01, R42/H17A01, R42/HECP01, R42/HECV01, R56/HF1201	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP100P72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R110/05D01, R110/95D01, R25/RM0101, R25/RM0102, R25/RM0201, R25/RM0202, R25/RM0301, R25/RM0302, R25/RM0401, R25/RM0402, R25/RM0501, R25/RM0502, R25/RM0601, R25/RM0602, R25/RM0701, R25/RM0702, R25/RM0801, R25/RM0802, R25A/S0101, R25A/S0201, R25A/S0301, R25A/S0401, R25A/S0501, R25A/S0601, R25A/S0701, R25A/S0801, R35/HTTX01, R35/LTTX01, R35/STXX00, R35/WTAX00, R35/WTBX00, R45/C0101, R45A/C0201, R45A/C0301, R45A/C0401	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP100P72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R110/05D01, R110/95D01, R25/RM0101, R25/RM0102, R25/RM0201, R25/RM0202, R25/RM0301, R25/RM0302, R25/RM0401, R25/RM0402, R25/RM0501, R25/RM0502, R25/RM0601, R25/RM0602, R25/RM0701, R25/RM0702, R25/RM0801, R25/RM0802, R25A/S0101, R25A/S0201, R25A/S0301, R25A/S0401, R25A/S0501, R25A/S0601, R25A/S0701, R25A/S0801, R35/HTTX01, R35/LTTX01, R35/STXX00, R35/WTAX00, R35/WTBX00, R45/C0101, R45A/C0201, R45A/C0301, R45A/C0401	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP100P72V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R30/L11X01, R30/L11X02, R30/L12X01, R30/L12X02, R30/L23X01, R30/L23X02, R30/L24X01, R30/L24X02, R30/L35X01, R30/L35X02, R30/L36X01, R30/L36X02, R30/L47X01, R30/L47X02, R30/L48X01, R30/L48X02	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP100P72V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R30/L11X01, R30/L11X02, R30/L12X01, R30/L12X02, R30/L23X01, R30/L23X02, R30/L24X01, R30/L24X02, R30/L35X01, R30/L35X02, R30/L36X01, R30/L36X02, R30/L47X01, R30/L47X02, R30/L48X01, R30/L48X02	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP30P72N	EMISSION POINTS/STATIONARY	R30/DVXX01, R55/HF1401	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	VENTS/PROCESS VENTS				
GRP30P72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R30/DVXX01, R55/HF1401	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPA72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R25A/PTN01, R45/CMT101, R45/NAHS, R85/HF01, R85/HF02	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPA72V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	G9/CIWPX01, G9/CIWPX02, L1/CIWPX09, MW/CIEGX01, MW/CIEGX02, R110/HP6, R110/LP2, R110/LPTV2, R25/PLSX01, R35/FFT661, R35/HP20, R35V/DFV11, R35V/DFV21, R45/OSVX11, R50/A1XX, R50/A2XX, R51C/AVX, R51E/05L, R51E/SPV, R51E/SVX, R52/BLCD, R52/BLCX21, R52/BLCX31, R53C/AGCX11,	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		R53C/AGCX21, R53C/ATS, R53C/SVX, R55-1/DB, R55-2/DB, R55-3/DB, R55/01DB, R55/ESP211, R55/ESPD11, R56-4/FC, R56/AHC2, R56/ESP11, R56/ESP211, R60/LCDX11, R60/LTXX11, R85/HD01, R85/HD02, R85/HH01, R85/HH02, RT/CIEGX01			
GRPA72V151	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R55-1/FC, R55-2/FC, R55-3/FC	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRPA72V151	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R55-1/FC, R55-2/FC, R55-3/FC	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPMMA82	MINERAL PROCESSING PLANT	R25/BM0101, R25/BM0102, R25/BM0201, R25/BM0202, R25/BM0301, R25/BM0302, R50/A1XX, R50/A2XX, R51E/05L,	60LL-1	40 CFR Part 60, Subpart LL	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		R51E/SPV, R51E/SVX, R56/AHC2			
GRPMMA82F	MINERAL PROCESSING PLANT	R56/HCRX21, R56/HCRX22, R56/HCRX23, R56/HSRX01, R56/HTLX31	60LL-1	40 CFR Part 60, Subpart LL	No changing attributes.
GRPP72N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R35/HCLX11, R6C	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPP72V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	R110/BTV01, R110/BTV02, R110/BTV03, R110/BTV04, R110/BTV05, R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1, R110/LPTV1, R25/PCL101, R25/PLS201, R35J1/CN01, R35J1/CS01, R50/02AG21, R50/03AG21, R50/04AG21, R50/07AG11, R50/08AG11, R50/09AG11,	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		R50/2EAG11, R50/3EAG11, R50/4EAG11, R51/#2TL, R51/#3TL, R51/ASVX, R53/RCUX, R53C/40B			
L1/CIWPX09	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
MW/CIEGX01	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
MW/CIEGX01	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
MW/CIEGX02	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
MW/CIEGX02	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
R110/HP6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-1	40 CFR Part 60, Subpart Db	No changing attributes.
R56-4/FC	MINERAL PROCESSING PLANT	N/A	60UUU-1	40 CFR Part 60, Subpart UUU	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
G9/CIWPX01	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX01	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW but less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2008 - 2012 model year must comply with an NMHC+NO_X emission limit of 7.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX01	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW and less than 56 KW and a displacement of less than 10 liters per cylinder and is	§ 60.4209(b)	§ 60.4214(c)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						a 2008 - 2012 model year must comply with a PM emission limit of 0.30 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.			
G9/CIWPX01	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX01	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						ignition engines as applicable. No further requirements apply for such engines under this part.			
G9/CIWPX02	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW and less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX02	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 19 KW but less than 37 KW and a displacement of less than 10 liters per cylinder and is a 2008 - 2012 model year must comply with an NMHC+NO_X emission limit of 7.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX02	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than	§ 60.4209(b)	§ 60.4214(c)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	or equal to 19 KW and less than 56 KW and a displacement of less than 10 liters per cylinder and is a 2008 - 2012 model year must comply with a PM emission limit of 0.30 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102.			
G9/CIWPX02	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).	§ 60.4209(b)	§ 60.4214(c)	None
G9/CIWPX02	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRP100A72N	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
GRP100A72N	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
GRP100P72	EP	R1111-1	Opacity	30 TAC Chapter	§ 111.111(a)(1)(A)	Visible emissions from any	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N				111, Visible Emissions		stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
GRP100P72N	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None
GRP100P72V	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP100P72V	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from	[G]§ 115.125 § 115.126(2) § 115.126(3)(B)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(B)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§ 115.121(c)(1).			
GRP30P72N	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.	None	None	None
GRP30P72N	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
GRPA72N	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six-minute period for any source on which construction was begun after January 31, 1972. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						of light. These vents are not capable of exceeding the opacity standards of 30 TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
GRPA72V	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPA72V151	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
GRPA72V151	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPMMA82	EU	60LL-1	PM	40 CFR Part 60, Subpart LL	§ 60.382(a)(1)	Stack emissions shall not contain particulate matter in excess of 0.05 grams per dry standard cubic meter.	§ 60.385(a) § 60.386(a) § 60.386(b)(1) ** See Periodic	None	§ 60.385(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							Monitoring Summary		
GRPMMA82	EU	60LL-1	PM (Opacity)	40 CFR Part 60, Subpart LL	§ 60.382(b)	Process fugitive emissions shall not exhibit greater than 10 percent opacity on and after the sixtieth day of maximum production rate operation, but no later than 180 days after initial startup.	§ 60.385(a) § 60.386(a) [G]§ 60.386(b)(2) ** See Periodic Monitoring Summary	None	§ 60.385(a)
GRPMMA82	EU	60LL-1	PM (Opacity)	40 CFR Part 60, Subpart LL	§ 60.382(a)(2)	Stack emissions shall not exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing emission control device.	§ 60.385(a) § 60.386(a) [G]§ 60.386(b)(2) ** See Periodic Monitoring Summary	None	§ 60.385(a)
GRPMMA82F	EU	60LL-1	PM (Opacity)	40 CFR Part 60, Subpart LL	§ 60.382(b)	Process fugitive emissions shall not exhibit greater than 10 percent opacity on and after the sixtieth day of maximum production rate operation, but no later than 180 days after initial startup.	§ 60.385(a) § 60.386(a) [G]§ 60.386(b)(2) ** See Periodic Monitoring Summary	None	§ 60.385(a)
GRPP72N	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six-minute period. The emissions from this vent originate from colorless VOCs, non-fuming liquids, or other sources that are not capable of obstructing the transmission of light. These vents are not capable of exceeding the opacity standards of 30	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						TAC Chapter 111 and therefore no monitoring is required to demonstrate compliance.			
GRPP72V	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
L1/CIWPX09	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i)	For each existing non-emergency, non-black start CI stationary RICE with a site rating less than or equal to 300 HP, located at an area source, you must comply with the requirements as specified in Table 2d.1.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
MW/CIEGX01	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MW/CIEGX01	EU	60IIII-1	NMHC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NOx emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).			
MW/CIEGX01	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MW/CIEGX01	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).			
MW/CIEGX01	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
MW/CIEGX02	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(e)(1) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 94.8(a)(2)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(e)-(f) and 40 CFR	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						94.8(a)(2) and 40 CFR 1042.101.			
MW/CIEGX02	EU	60IIII-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(e)(1) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 94.8(a)(2)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder and is a 2007 - 2013 model year must comply with a PM emission limit of 0.50 g/KW-hr, as stated in 40 CFR 60.4202(e)(1), (e)(3) and 40 CFR 94.8(a)(2).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MW/CIEGX02	EU	60IIII-1	Total Hydrocarbons/NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(e)(1) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 94.8(a)(2)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a displacement of greater than or equal to 20 liters per cylinder and less than 25 liters per cylinder and is a 2007 - 2013 model year must comply with a THC+NOx emission limit of 9.8 g/KW-hr, as stated in 40 CFR 60.4202(e)(1), (e)(3) and 40 CFR 94.8(a)(2).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
MW/CIEGX02	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
R110/HP6	EU	60DB-1	NO_X	40 CFR Part 60, Subpart Db	§ 60.44b(a)(1)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (low heat release rate) shall discharge gases containing NOx in excess of 43 ng/J heat input.	§ 60.46b(c) § 60.46b(e) § 60.46b(e)(1) § 60.46b(e)(3) [G]§ 60.48b(b) § 60.48b(c) § 60.48b(d) § 60.48b(e) [G]§ 60.48b(e)(2) § 60.48b(e)(3) § 60.48b(f)	[G]§ 60.48b(b) § 60.48b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) § 60.49b(h) § 60.49b(i) § 60.49b(v) § 60.49b(w)
R110/HP6	EU	60DB-1	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
R110/HP6	EU	60DB-1	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
R110/HP6	EU	60DB-1	SO_2	40 CFR Part 60,	§ 60.40b(a)	This subpart applies to each	None	[G]§ 60.49b(d)	§ 60.49b(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Subpart Db		steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).		§ 60.49b(o)	§ 60.49b(a)(1) § 60.49b(a)(3)
R56-4/FC	EU	60UUU-1	PM	40 CFR Part 60, Subpart UUU	§ 60.732(a)	No emissions to the atmosphere from affected facilities shall contain PM over 0.092 g/dscm for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm for dryers.	§ 60.736(a) § 60.736(b)(1) ** See Periodic Monitoring Summary	None	§ 60.735(d)
R56-4/FC	EU	60UUU-1	PM (Opacity)	40 CFR Part 60, Subpart UUU	§ 60.732(b)	No emissions to the atmosphere from affected facilities shall exhibit over 10% opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.	§ 60.734(a) § 60.736(a) § 60.736(b)(2)	§ 60.734(a) § 60.735(a)	§ 60.735(c) § 60.735(c)(1) § 60.735(d)

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: GRPA72V151	
Control Device ID No.: SGA/HBA	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Secondary Voltage	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Greater than or equal to 5kV.	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 2% of reading; or ± 5% over its operating range.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPA72V151	
Control Device ID No.: SGA/HBA	Control Device Type: Wet or dry electrostatic precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Secondary Current	
Minimum Frequency: once per day	
Averaging Period: N/A	
Deviation Limit: Greater than or equal to 20mA.	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: ± 1% of reading; or ± 5% over its operating range.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP100P72V	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity shall not be greater than 30%.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPA72V	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity shall not be greater than 20%.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPA72V151	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity shall not be greater than 20%.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPMMA82	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart LL	SOP Index No.: 60LL-1
Pollutant: PM	Main Standard: § 60.382(a)(1)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 7 %	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPMMA82	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart LL	SOP Index No.: 60LL-1
Pollutant: PM (Opacity)	Main Standard: § 60.382(a)(2)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 7 %	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPMMA82	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart LL	SOP Index No.: 60LL-1
Pollutant: PM (Opacity)	Main Standard: § 60.382(b)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 10 %	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPMMA82F	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart LL	SOP Index No.: 60LL-1
Pollutant: PM (Opacity)	Main Standard: § 60.382(b)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 10%	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPP72V	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity shall not be greater than 30%.	
Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: R56-4/FC	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart UUU	SOP Index No.: 60UUU-1
Pollutant: PM	Main Standard: § 60.732(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Six times per minute	
Averaging Period: Six-minutes	
Deviation Limit: Opacity greater than 10%	
Periodic Monitoring Text: Measure and record the opacity with a continuous opacity monitoring system (COMS). The COMS shall be operated in accordance with 40 CFR § 60.13. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be considered and reported as a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 60, Subpart D	The boilers in this group were constructed prior to August 17, 1971
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 60, Subpart Da	The boilers in this group are not part of an electric utility
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 60, Subpart Db	The boilers in this group were constructed prior to June 19, 1984
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 60, Subpart Dc	The boilers in this group were constructed prior to June 9, 1989.
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 63, Subpart DDDDD	This boiler is located at a site that is not a major source of HAPs.
GRPBPRE71	R110/HP1, R110/HP2, R110/HP3, R110/HP4, R110/HP5, R110/LP1	40 CFR Part 63, Subpart JJJJJJ	This boiler is a gas-fired boiler.
GRPMMPRE82	R10/ATBS, R10/B315, R10/B316, R10/B33A, R10/B33B, R10/B39A, R10/BDS1, R10/BDS2, R10/BDS3, R10/BHNX, R10/BHSX, R10/BHXX, R10/BOSX, R10/GDCX, R15/BDXX, R16/BDXX, R21/BTTX, R25/BFCX, R25/RM0101, R25/RM0102, R25/RM0201, R25/RM0202, R25/RM0301, R25/RM0302, R25/RM0401, R25/RM0402, R25/RM0501, R25/RM0502, R25/RM0601, R25/RM0602, R25/RM0701, R25/RM0702, R25/RM0801, R25/RM0802, R51/#2TL, R51/#3TL, R51/ASVX, R51C/AVX, R52/BLCD, R52/BLCX21, R52/BLCX31, R53/RCUX, R53C/40B,	40 CFR Part 60, Subpart LL	The sources in this group were constructed prior to August 24, 1982

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
	R53C/ATS, R53C/SVX, R55-1/DB, R55-2/DB, R55-3/DB, R55/01DB, R85/HD01, R85/HD02, R85/HH01, R85/HH02		
GRPPRE86	R55-1/FC, R55-2/FC, R55-3/FC	40 CFR Part 60, Subpart UUU	The calciners in this group were constructed before April 23, 1986.
R110/HP6	N/A	40 CFR Part 60, Subpart D	This boiler was constructed after June 19, 1986 and meets the requirements of 60.40b(a), so Subpart D is not applicable to this unit.
R110/HP6	N/A	40 CFR Part 60, Subpart Da	This boiler is not part of an electric utility
R110/HP6	N/A	40 CFR Part 60, Subpart Dc	This boiler has a rating of greater than 100 MMBtu/hr
R110/HP6	N/A	40 CFR Part 63, Subpart DDDDD	This boiler is located at a site that is not a major source of HAPs.
R110/HP6	N/A	40 CFR Part 63, Subpart JJJJJJ	This boiler is a gas-fired boiler.
R110/LP2	N/A	40 CFR Part 60, Subpart D	This boiler has a rating of less than 250 MMBtu/hr, which is the cut-off for this regulation
R110/LP2	N/A	40 CFR Part 60, Subpart Da	This boiler is not part of an electric utility
R110/LP2	N/A	40 CFR Part 60, Subpart Db	This boiler was constructed prior to June 19, 1984
R110/LP2	N/A	40 CFR Part 60, Subpart Dc	This boiler was constructed prior to June 9, 1989
R110/LP2	N/A	40 CFR Part 63, Subpart DDDDD	This boiler is located at a site that is not a major source of HAPs.
R110/LP2	N/A	40 CFR Part 63, Subpart JJJJJJ	This boiler is a gas-fired boiler.
R148/DSLTK	N/A	30 TAC Chapter 115, Storage of VOCs	This tank has a capacity of 500 gallons, which is

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			below the cut-off of 1,000 gallons.
R148/DSLTK	N/A	40 CFR Part 60, Subpart Kb	This tank has a capacity of 500 gallons, which is below the cut-off of 19,813 gallons (75 cubic meters).
R148/GASTK	N/A	30 TAC Chapter 115, Storage of VOCs	This tank has a capacity of 500 gallons, which is below the cut-off of 1,000 gallons.
R148/GASTK	N/A	40 CFR Part 60, Subpart Kb	This tank has a capacity of 500 gallons, which is below the cut-off of 19,813 gallons (75 cubic meters).

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 8166	Issuance Date: 10/31/2016
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
G9/CIWPX01	STORM SEWER PRIMARY PUMP ENGINE	106.512/06/13/2001
G9/CIWPX02	STORM SEWER PUMP ENGINE	106.511/09/04/2000
L1/CIWPX09	PUMP ENGINE RAW WATER 180283	106.512/06/13/2001
MW/CIEGX01	WELL 3-5-7 LIGHTS ENGINE	106.511/09/04/2000
MW/CIEGX02	WELL 6&8 LIGHTS ENGINE	106.511/09/04/2000
R10/ATBS	B-10-A TOWER-BAUXITE/SPAR	8166
R10/B315	R-10-#3 CONVEYOR TO #15 BELT	8166
R10/B316	R-10-#3 CONVEYOR TO #16 BELT	8166
R10/B33A	R-10-#3 CONVEYOR TO #3A BELT	8166
R10/B33B	R-10-#3 CONVEYOR TO #3B BELT	8166
R10/B39A	R-10-#3 CONVEYOR TO #9A BELT	8166
R10/BDS1	R-10 BAUXITE DROP TO OUTSIDE STORAGE #1	8166
R10/BDS2	R-10 BAUXITE DROP TO OOUTSIDE STORAGE #2	8166
R10/BDS3	R-10 BAUXITE DROP TO OUTSIDE STORAGE #3	8166
R10/BHNX	R-10 BAUXITE HOPPER NORTH	8166
R10/BHSX	R-10 BAUXITE HOPPER SOUTH	8166
R10/BHXX	R-10 BAUXITE HANDLING	8166
R10/BOSX	R-10 BAUXITE FROM OUTSIDE STORAGE	8166
R10/GDCX	R-10 GANTRY DROP TO CONVEYOR (BAUXITE)	8166
R110/05D01	R110-5 LB DEAERATOR- VENT	8166
R110/40X01	R110-40 LB DEAERATOR-VENT A	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R110/40X02	R110-40 LB DEAERATOR-VENT B	8166
R110/40X03	R110-40LB DEAERATOR-VENT C	8166
R110/95D01	R110-95 LB DEAERATOR - VENT	8166
R110/BTV01	R-110 HPD1 BLOWDOWN TANK VENT	8166
R110/BTV02	R-110 HPD2 BLOWDOWN TANK VENT	8166
R110/BTV03	R-110 HPD3 BLOWDOWN TANK VENT	8166
R110/BTV04	R-110 HPD4 BLOWDOWN TANK VENT	8166
R110/BTV05	R-110 HPD 5&6 BLOWDOWN TANK VENT	8166
R110/CVA01	R110-CONDENSATE VESSEL A-VENT	8166
R110/CVD01	R110-CONDENSATE VESSEL D-VENT	8166
R110/HP1	R110-HIGH PRESSURE BOILER #1	8166
R110/HP2	R110-HIGH PRESSURE BOILER #2	8166
R110/HP3	R110-HIGH PRESSURE BOILER #3	8166
R110/HP4	R110-HIGH PRESSURE BOILER #4	8166
R110/HP5	R110-HIGH PRESSURE BOILER #5	8166
R110/HP6	R110-HIGH PRESSURE BOILER #6	8166
R110/LP1	R110-LOW PRESSURE BOILER #1	8166
R110/LP2	R110-LOW PRESSURE BOILER #2	8166
R110/LPTV1	R-110 LPTV1 BLOWDOWN TANK VENT	8166
R110/LPTV2	R-110 LPTV2 BLOWDOWN TANK VENT	8166
R148/DSLTK	FUEL TANK NO. 2	106.473/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R148/GASTK	FUEL TANK NO. 1	106.473/09/04/2000
R15/BDXX	R15-BAUXITE DROP INSIDE BUILDING	8166
R16/BDXX	R-16 BAUXITE DROP INSIDE BUILDING	8166
R21/BTTX	R-21-TRANSFER TOWER-BAUXITE	8166
R25/BFCX	R-25-BUILDING-BAUXITE CONVEYOR	8166
R25/BM0101	R-25 BALL MILL #1 ENTRY VENT	8166
R25/BM0102	R-25 BALL MILL #1 EXIT VENT	8166
R25/BM0201	R-25 BALL MILL #2 ENTRY VENT	8166
R25/BM0202	R-25 BALL MILL #2 EXIT VENT	8166
R25/BM0301	R-25 BALL MILL #3 ENTRY VENT	8166
R25/BM0302	R-25 BALL MILL #3 EXIT VENT	8166
R25/PCL101	R-25 PRECOAT LIME SLAKER NO. 1 VENT	8166
R25/PLS201	R-25 PROCESS LIME SLAKER NO. 2	8166
R25/PLSX01	R-25 NEW PRODUCT LIME SLAKER VENT	8166
R25/RM0101	ROD MILL #1-VENT	8166
R25/RM0102	ROD MILL FEED #1-VENT	8166
R25/RM0201	ROD MILL #2-VENT	8166
R25/RM0202	ROD MILL FEED #2-VENT	8166
R25/RM0301	ROD MILL #3-VENT	8166
R25/RM0302	ROD MILL FEED #3-VENT	8166
R25/RM0401	ROD MILL #4-VENT	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R25/RM0402	ROD MILL FEED #4-VENT	8166
R25/RM0501	ROD MILL #5-VENT	8166
R25/RM0502	ROD MILL FEED #5-VENT	8166
R25/RM0601	ROD MILL #6-VENT	8166
R25/RM0602	ROD MILL #6-VENT	8166
R25/RM0602	ROD MILL FEED #6-VENT	8166
R25/RM0701	ROD MILL #7-VENT	8166
R25/RM0702	ROD MILL FEED #7-VENT	8166
R25/RM0801	ROD MILL #8-VENT	8166
R25/RM0802	ROD MILL FEED #8-VENT	8166
R25A/PTN01	R25A NEEDLE TANK VENT	8166
R25A/S0101	R25A-VESSEL #1-VENT	8166
R25A/S0201	R25A-VESSEL #2-VENT	8166
R25A/S0301	R25A-VESSEL #3-VENT	8166
R25A/S0401	R25A-VESSEL #4-VENT	8166
R25A/S0501	R25A-VESSEL #5-VENT	8166
R25A/S0601	R25A-VESSEL #6-VENT	8166
R25A/S0701	R25A-VESSEL #7-VENT	8166
R25A/S0801	R25-VESSEL #8-VENT	8166
R30/DVXX01	R-30-DIGESTION VACUUM VENT	8166
R30/L11X01	R-30-LOW TEMP 1 BO #1 STACK A	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R30/L11X02	R-30-LOW TEMP 1 BO #1 STACK B	8166
R30/L12X01	R-30-LOW TEMP 1 BO #2 STACK A	8166
R30/L12X02	R-30-LOW TEMP 1 BO #2 STACK B	8166
R30/L23X01	R-30-LOW TEMP 2 BO #3 STACK A	8166
R30/L23X02	R-30-LOW TEMP 2 BO #3 STACK B	8166
R30/L24X01	R-30-LOW TEMP 2 BO #4 STACK A	8166
R30/L24X02	R-30-LOW TEMP 2 BO #4 STACK B	8166
R30/L35X01	R-30-LOW TEMP 3 BO #5 STACK A	8166
R30/L35X02	R-30-LOW TEMP 3 BO #5 STACK B	8166
R30/L36X01	R-30-LOW TEMP 3 BO #6 STACK A	8166
R30/L36X02	R-30-LOW TEMP 3 BO #6 STACK B	8166
R30/L47X01	R-30-LOW TEMP 4 BO #7 STACK A	8166
R30/L47X02	R-30-LOW TEMP 4 BO #7 STACK B	8166
R30/L48X01	R-30-LOW TEMP 4 BO #8 STACK A	8166
R30/L48X02	R-30-LOW TEMP 4 BO #8 STACK B	8166
R301/WAS01	R-301-GROUNDWATER AIR STRIPPER	8166
R35/FFT661	R-35 FLOC MIX TANK 661 VENT	8166
R35/HCLX11	R35 ACID STORAGE TANK WET SCRUBBER STACK	8166
R35/HP20	R-35 FLOC MIX TANK HP20 VENT	8166
R35/HTTX01	R-35-HIGH TEMP THICKNERS (11-16) VENT	8166
R35/LTTX01	R-35-LOW TEMP THICKNERS (2,3,4,7,8,9) VENT	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R35/STXX00	R-35-SECONDARY THICKENERS-VENT	8166
R35/WTAX00	R-35-WASHER TRAIN A-VENT	8166
R35/WTBX00	R-35-WASHER TRAIN B VENT	8166
R35J1/CN01	R-35J1 CAUSTICIZER VENT-NORTH	8166
R35J1/CS01	R-35J1 CAUSTICIZER VENT-SOUTH	8166
R35V/DFV11	R-35V FLOCCULENT VESSEL NO. 1 BAG COLLECTOR STACK	8166
R35V/DFV21	R-35V FLOCCULENT VESSEL NO. 2 BAG COLLECTOR STACK	8166
R35V/FCX01	R-35V-FLOCCULENT TANK-NORTH #1-VENT	8166
R35V/FEA01	R-35V-FLOCCULENT TANK-NORTH #2-VENT	8166
R35V/FS201	R-35V-FLOCCULENT TANK-SOUTH #2-VENT	8166
R35V/FWB01	R-35V-FLOCCULENT TANK-SOUTH #1-VENT	8166
R40/HI0101	R-40-HEAT INTERCHANGE VACUUM #1-VENT	8166
R40/HI0201	R-40-HEAT INTERCHANGE VACUUM #2-VENT	8166
R40/HI0301	R-40-HEAT INTERCHANGE VACUUM #3-VENT	8166
R40/HI0401	R-40-HEAT INTERCHANGE VACUUM #4-VENT	8166
R40/HI0501	R-40-HEAT INTERCHANGE VACUUM #5-VENT	8166
R40/HI0601	R-40-HEAT INTERCHANGE VACUUM #6-VENT	8166
R42/01EV01	R-42-#1EVAPORATION VACUUM - VENT	8166
R42/02EV01	R-42-#2 EVAPORATION VACUUM-VENT	8166
R42/03EV01	R-42-#3 EVAPORATION VACUUM-VENT	8166
R42/04EV01	R-42-#4 EVAPORATION VACUUM-VENT	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R42/06EV01	R-42-#6 EVAPORATION VACUUM-VENT	8166
R42/H17A01	R-42-HEAT INERCHANGE VACUUM #7 - VENT	8166
R42/HECP01	R-42-HIGH EFFICIENCY CAUSTICIZATION VACUUM PUMP	8166
R42/HECV01	R-42-HIGH EFFICIENCY CAUSTICIZATION RELIEF VESSEL	8166
R45/C0101	R-45A-BAROMETRIC CONDENSER VENT #1	8166
R45/CMT101	R-45 CRYSTAL GROWTH MODIFIER PRODUCT TANK VENT	8166
R45/NAHS	R045 SODIUM HYDROSULFIDE TANK SCRUBBER VENT	8166
R45/OSVX11	R-45 OXALATE SYSTEM VESSEL BAG	8166
R45A/C0201	R-45A-BAROMETRIC CONDENSER VENT #2	8166
R45A/C0301	R-45A-BAROMETRIC CONDENSER VENT #3	8166
R45A/C0401	R-45A-BAROMETRIC CONDENSER VENT #4	8166
R50/02AG21	R-50 NO. 2 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/03AG21	R-50 NO. 3 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/04AG21	R-50 NO. 4 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/07AG11	R-50 NO. 7 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/08AG11	R-50 NO. 8 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/09AG11	R-50 NO.9 AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/2EAG11	R-50 NO. 2E AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/3EAG11	R-50 NO. 3E AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/4EAG11	R-50 NO. 4E AIR GRAVITY CONVEYOR BAG COLLECTOR	8166
R50/A1XX	R-50-AL203 HANDLING	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R50/A2XX	R-50-AL2O3 HANDLING	8166
R51/#2TL	R51-TRACK #2 LOADING - AL2O3	8166
R51/#3TL	R51-TRACK #3 LOADING - AL2O3	8166
R51/ASVX	R-51-AL2O3 STORAGE VESSEL	8166
R51C/AVX	R-51C-AL2O3 STORAGE VESSEL	8166
R51E/05L	R-51E-#5 TRACK LOADING - AL2O3	8166
R51E/SPV	R51E-AL2O3 SPECIAL PRODUCTS VESSEL	8166
R51E/SVX	R51E-AL2O3 STORAGE VESSEL	8166
R52/BLCD	R-52-BULK CONVEYOR TRANSFER	8166
R52/BLCX21	R-52-BULK LOADING CHUTE-NORTH	8166
R52/BLCX31	R-52-BULK LOADING CHUTE-SOUTH	8166
R53/RCUX	R-53-RAILCAR UNLOADING	8166
R53C/40B	R-53C-AL2O3 CONVEYOR #40 BELT TO R-53C	8166
R53C/AGCX11	R-53C AIR GRAVITY CONVEY BAG COLLECTOR STACK-NORTH	8166
R53C/AGCX21	R-53C AIR GRAVITY CONVEY BAG COLLECTOR STACK-SOUTH	8166
R53C/ATS	R-53C-TRANSFER & STORAGE	8166
R53C/SVX	R-53C-STORAGE VESSEL-AL2O3	8166
R55-1/DB	R-55-1-FLASH CALCINER DISENGAGING BOX	8166
R55-1/FC	R-55-1 FLASH CALCINER	8166
R55-2/DB	R-55-2 FLASH CALCINER DISENGAGING BOX	8166
R55-2/FC	R-55-2 FLASH CALCINER	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R55-3/DB	R-55-3 FLASH CALCINER DISENGAGING BOX	8166
R55-3/FC	R-55-3 FLASH CALCINER	8166
R55/01DB	R-55-(1-2-3) DISENGAGING BOX-SPARE	8166
R55/ESP211	R-55 DUST REDIGEST TANK NO. 2 WET SCRUBBER VENT	8166
R55/ESPD11	R-55 ESP DUST REDIGEST TANK NO 1 WET SCRUBBER VENT	8166
R55/HF1401	R-55 HORIZONTAL FILTER (#1, 2, 3, 4) COMMON VENT	8166
R56-4/FC	R-56-4 FLASH CALCINER	8166
R56/AHC2	R-56-ALUMINA CONVEYOR #2	8166
R56/ESP11	R-56 DUST REDIGEST TANK NO. 1 WET SCRUBBER VENT	8166
R56/ESP211	R-56 ESP DUST REDIGEST TANK NO 2 WET SCRUBBER VENT	8166
R56/HCRX21	R-56 HYDRATE RAILCAR LOADING DROP FM LOADER BUCKET	8166
R56/HCRX22	R-56 HYDRATE RAILCAR DROP FROM HOPPER TO CONVEYOR	8166
R56/HCRX23	R-56 HYDRATE RAILCAR DROP FROM CONVEYOR TO RAILCAR	8166
R56/HF1201	R-56-HORIZONTAL FILTER (#1,#2) COMMON VENT	8166
R56/HSRX01	R-56-HYDRATE STORAGE DROP TO CONVEYOR	8166
R56/HTLX31	R-56 HYDRATE TRUCK DROP FROM LOADER TO TRUCK	8166
R60/LCDX11	R-60 LIME COMVEYOR DISCHARGE BAG COLLECTOR STACK	8166
R60/LTXX11	R-60 LIME TRANSFER/STORAGE BAG COLLECTOR STACK	8166
R6C	SODIUM HYDROXIDE STORAGE TANK VENT	8166
R85/HD01	R-85-#1 HYDRATE DRYER	8166
R85/HD02	R-85-#2 HYDRATE DRYER	8166

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
R85/HF01	R-85 HORIZONTAL FILTER NO. 1 VENT	8166
R85/HF02	R-85 HORIZONTAL FILTER NO. 2 VENT	8166
R85/HH01	R-85-HYDRATE HANDLING #1	8166
R85/HH02	R-85-HYDRATE HANDLING #2	8166
RT/CIEGX01	RADIO TOWER EMERGENCY ENGINE	106.511/09/04/2000

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound